



CONTENTS *continued*

	<i>Page</i>
Use of death rates in evaluating multiple screening, Baltimore, Md..... <i>Charles M. Wylie</i>	1111
The physician-pharmacist relationship.....	1117
Complement-fixing antibodies for <i>R. rickettsii</i> in serums of black-tailed jack rabbits..... <i>Eli F. Pagan, K. J. McMahon, and R. E. Bowen</i>	1120
Evaluation of screening for disease.....	1123
1961 index.....	1126
Short reports and announcements:	
Community health administration.....	1050
PHS personnel announcements.....	1055
Illegal sale of amphetamine drugs.....	1058
Oral drugs for diabetes.....	1062
Purified virus from leukemic rats.....	1079
New members of the PHR Board of Editors.....	1080
International mail pouch.....	1093
Program notes.....	1110
Fire prevention program. Epidemiologic note.....	1119
1961 health trends.....	1122
Usefulness of stroke pamphlet.....	1124
Federal publications.....	1125

Published concurrently with this issue:

PUBLIC HEALTH MONOGRAPH NO. 67. . . . Principles and Procedures in the Evaluation of Screening for Disease. *Robert M. Thorner and Quentin R. Remein.*

Summary and information on availability appear on page 1123.



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RUSSELL, A. L. (Public Health Service), and WHITE, CARL L.: *Dental caries in Maryland children after seven years of fluoridation. Public Health Reports, Vol. 76, December 1961, pp. 1087-1093.*

No indication of a caries inhibition large enough, and persistent enough, to affect the count of decayed, missing, or filled teeth in tooth types which were already in eruption in 1952 when fluoridation began was observed 7 years later in a group of white children, who have resided since birth in Montgomery and Prince Georges Counties, Md.

Caries patterns in the deciduous teeth of children 9 years or older and in first molars of those aged 13 or 14 years were

essentially the same in 1959 as in 1952. However, susceptibility of second molars in these children has systematically been diminished according to the elapsed time since fluoridation began. Children entered the seventh year with only about half as many second molars decayed than in the first year of fluoridation, and substantially fewer second molars became carious during the year. These teeth were in the final stages of calcification when fluoridation began.

EICKHOFF, THEODORE C. (Public Health Service), and ROBINSON, ROSLYN Q.: *Influenza surveillance, United States, 1960. Public Health Reports, Vol. 76, December 1961, pp. 1099-1106.*

An influenza epidemic of unexpected severity occurring in the United States during the first 3 months of 1960 showed multiple origins and no definite patterns of geographic spread.

Older age groups, particularly the age group 65 years and over, had relatively greater influenza morbidity when compared with their experience in the 1957-58 pandemic. The peak of morbidity was reached during the week ending January 30, followed 2 weeks later by the

peak of excess mortality due to influenza and pneumonia.

The extent of excess influenza and pneumonia mortality, as reported from 108 cities, closely approached that recorded during the first wave of the Asian influenza pandemic in the fall of 1957.

The virus strains responsible for the epidemic were clearly of the A₂ (Asian) subgroup, with little, if any, antigenic variation from strains isolated during the pandemic of 1957.

WYLIE, CHARLES M. (Johns Hopkins University School of Hygiene and Public Health): *Use of death rates in evaluating multiple screening, Baltimore, Md. Public Health Reports, Vol. 76, December 1961, pp. 1111-1116.*

Multiple screening has been devised to discover persons who need medical care without requiring physicians to examine the total population. Since groups with high death rates need more medical care than other groups, the comparison of death rates in persons with positive and with negative test results may be used to evaluate screening tests.

This study gives 5-year mortality figures for 2,298 residents of Baltimore who took multiple screening tests in 1954. Five indices which use death rates to evaluate the tests are presented. Each

index has good and bad points, and none is adequate to form the sole basis for evaluation of screening tests.

The indices suggest that tests with adequate performance were the 70-mm. chest X-ray, the six-lead electrocardiogram, blood pressure measurement, the questionnaire for symptoms of cardiovascular disease, blood and urine sugar, and urine albumin. Tests with poor performance were the serologic test for syphilis, hemoglobin level, and height and weight.

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1961 INDEX

Public Health Reports

Volume 76, January–December

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Numbers 64–67

THIS INDEX to *Public Health Reports* and Public Health Monographs is divided into a subject index and an author index.

The subject index carries one or more entries for each item published. In addition to the subject headings, categorical headings include ANNOUNCEMENTS (ORGANIZATIONS, PERSONNEL, SCHOOLS), CONFERENCE REPORTS, EPIDEMIOLOGIC NOTES, EXHIBITS, LEGAL NOTES, PUBLICATIONS, and TRAINING COURSES.

Public Health Monographs published concurrently with *Public Health Reports* in 1961 are listed in numerical order under the category heading MONOGRAPHS. The monograph summaries appearing in the journal are indexed under appropriate subject headings.

One asterisk before the page number indicates an original, signed article. Two asterisks, used only in the author index, indicate a monograph. Entries without a symbol may refer to summaries or briefs of papers presented at conferences, narrative conference reports, statements or reports of committees, short reports without authors, or similar items.

Subject Index

* Original article.

ACCIDENTS

- see also* Poisoning
- childhood, prevention program, Florida... *37
- drowning at home, United States, 1958; epidemiologic note... 452
- epidemiology of, children under 15 years, Alameda and Contra Costa Counties, Calif., 1957... *25
- fire prevention program, Mississippi County, Ark.; epidemiologic note... 1119
- laboratory-acquired infections, Texas State Department of Health, 1930-60, and recommendations for prevention... *51
- occupations of men dying from, United States, 1950... *817
- prevention, contributions of nurses toward... *853
- prevention, status of State programs and activities in Region IX, DHEW... *251
- survey in Worcester, Mass., 1957-58, results... *606
- traffic, caused by drinking drivers, recommendations for campaign against... 590
- traffic, toll in United States... 343

ADMINISTRATION

- "Administration of Community Health Services," publication announcement... 1050
- administrative careers, attitude of physicians toward... 111
- improvement of services through manipulation of organizational factors... *618
- industrial management techniques, application to government operations... 111
- mental health program, Onondaga County, N.Y. ... *979
- need for medical care administrators... 114
- public health administrators, seminars for, Emory University and PHS... *261
- reorganization of New York State Health Department ... 107
- selection and use of behavioral scientists... 112

AGED

- characteristics and health needs... *1023
- health needs, neglect due to financial barriers ... 581
- housing for, coordination of Federal programs ... 1027
- in Pinellas County, Fla., characteristics... 664
- Jewish homes for, number and functions of social workers... *625
- "well-oldsters," appraisal of health, Toledo City Health Department, Ohio... 744

AIRCRAFT

- disinsection with DDVP vapor, preliminary tests... *777

AIR POLLUTION

- control, attitude of public toward... 125
- from fires in refuse dump, abatement orders; legal note... 852
- noxious odors, liability for; legal note... 1037
- smog, relation to asthmatic attacks, Pasadena, Calif., 1956... *545

ALASKA

- decline of tuberculosis, 1949-51 to 1960... *19
- natives, sanitary facilities construction program... *317

ALCALIGENES

- A. faecalis* from swimming pool water, characteristics, halogen tolerance... *529

ALCOHOLISM

- drinking drivers, recommendations for campaign against... 590
- education program, Minnesota... 896
- rehabilitation program, role of public health nurses, Maryland... *379
- research, overview... *223

ALGAE

- usefulness in removing nutrients from domestic wastes... *301
- waste-grown, as source of food... 128

ANIMAL DISEASES *see* name of disease

ANIMALS, LABORATORY

- germfree, in environmental health research... 122

ANNOUNCEMENTS, ORGANIZATIONS

- American Hospital Association-Public Health Service committee on planning long-term patient care facilities... 780
- housing hygiene training activities of PHS, transfer to Washington, D.C., headquarters... 624
- Kansas City Field Station, PHS, new laboratory... 468
- National Dental Health Center, PHS, San Francisco... 658
- Office of Resource Development (Environmental Health) established in Bureau of State Services, PHS... 743
- three new divisions in Bureau of State Services, PHS... 256
- United States Conference of City Health Officers... 246

ANNOUNCEMENTS, PERSONNEL

Hollis, Mark D., named chief engineer of World Health Organization----- 1055

Knutson, John W., appointed professor of preventive dentistry in School of Dentistry and professor of public health in School of Public Health, University of California at Los Angeles----- 1055

PHR board of editors, new members----- 1080

Ribicoff, Abraham, Secretary of DHEW----- 104

Sowder, Wilson T., named chief, Office of Aging, PHS----- 1055

Terry, Luther L., named Surgeon General, PHS----- 208

ANNOUNCEMENTS, SCHOOLS

graduate program in biomedical engineering, Johns Hopkins University----- 697

graduate program in hospital administration, School of Public Health, University of California at Los Angeles----- 564

graduate programs, School of Public Health, University of California at Los Angeles----- 663

graduate training program in research in medical care, University of Michigan School of Public Health----- 697

master's degree program in occupational health nursing, University of Washington School of Nursing----- 564

new nutrition department, Massachusetts Institute of Technology----- 82

short-term courses, 1961, University of Michigan School of Public Health----- 82

ANTIBIOTICS

bacitracin mouthwash, effectiveness in dental caries control, 8-month study--- *1094

erythromycin in treatment of early syphilis----- *929

isolation from Limburger cheese----- 563

penicillin, reactions of venereal disease clinic patients to, comparative data for 1954 and 1959----- *189

synnematin B, treatment of acute gonorrhea in males----- *630

ARTHRITIS

research, National Institute of Arthritis and Metabolic Diseases, PHS, 1950-60--- 788

rheumatoid, research findings----- 322

ASTHMA

relation of smog to, Pasadena, Calif., 1956-- *545

AUTOMOBILES

seat-belt anchors and blowby devices for Federal vehicles----- 831

AWARDS

Bronfman Prizes for Public Health Achievement----- 799

BEHAVIORAL SCIENCE

culture and society, effect on public health; conference report----- 838

BROMIDES

methyl, for fumigation, irritation from--- *216

CADMIUM

poisoning from refrigerator shelf used as barbecue grill----- *543

CANCER

activities of the Public Health Service--- *341

chemotherapy----- 149

childhood and adult, differences between-- 151

concepts, new biological, clinical, and social-control, research, international aspects, publications; PHS exhibits----- 344

Eighth International Cancer Congress, 1962, announcement----- 542

research, relation of nucleic acid to malignancy----- 238

skin, geographic variation in incidence, 10 U.S. cities----- *345

uterine, comparative study of patients in different-sized hospitals, Connecticut, 1935-51----- *987

CEYLON

mortality trends, determinants and consequences----- *659

CHEMICALS

potential environmental hazards, evaluation of----- 122

CHILD HEALTH

see also Infants; School Health Services

accident prevention program, Florida----- *37

accidents of children under 15 years, epidemiology of, Alameda and Contra Costa Counties, Calif., 1957----- *25

center to be established, PHS----- 426

childhood and adult cancer, differences between----- 151

dental caries experience in Seventh Day Adventist and other children, Prince Georges and Montgomery Counties, Md., 1959----- *209

libraries and recordings of White House Conference on Children and Youth, announcement----- 90

medical care for needy children, responsibilities of States----- 140

mentally retarded children, proposals for integrated statewide program, Maryland-- 158

oral poliomyelitis vaccination program, Cincinnati, 1960----- *369

phenylketonuria casefinding, California---- 150

psychological services for detection of preschool deviations, 9-month study, Montgomery County (Md.) clinics----- 139

teenage concerns----- 142

use of topical fluorides against dental caries, survey of State and local programs----- 136

vision abnormalities, detection and remedial procedures----- 140

vision testing of preschool children by voluntary agencies----- 110

CHINA			
medicine and public health in.....	*699		
CHOLERA			
clinical, public health, and research as- pects; conference report.....	323		
CHRONIC DISEASES			
<i>see also</i> name of disease			
community-based research.....	109		
CIVIL DEFENSE			
<i>see also</i> Disasters			
emergency childbirth service.....	*78		
training program in medical self-help....	994		
COMMUNICABLE DISEASES			
<i>see also</i> name of disease			
control, role of hospital laboratories in alerting health departments.....	108		
control services at Winter Olympic Games, Squaw Valley, Calif., 1960.....	*431		
COMMUNICATIONS			
biological, ways to improve; conference report.....	1034		
hospital code for press relations.....	725		
writing style of American physicians; critique.....	776		
CONFERENCE REPORTS			
American Public Health Association, 88th, 1960.....	105		
American Public Health Association, Mid- dle States Branch, 1960; challenges of the sixties.....	286		
Conference on Cholera, South-East Asia Treaty Organization and PHS, East Paki- stan, 1960.....	323		
Conference on Health Studies of Human Populations, 1960.....	955		
Human Behavior and Environmental Health, 1961; discovery of people.....	506		
International Congress on Occupational Health, 13th, 1960.....	398		
Mental Hospital Statisticians, 11th annual, 1961; progress in reporting mental hos- pital statistics.....	925		
Ohio Public Health Association, 1960....	837		
Symposium on Biological Communications, 1960.....	1034		
Symposium on World Medicine, March 1961.....	793		
CYSTIC FIBROSIS <i>see</i> Pancreatic Cystic Fi- brosis			
DEATH RATES <i>see</i> Vital Statistics			
DENTAL CARE PLANS <i>see</i> Insurance, Health			
DENTAL CARIES			
control, effectiveness of bacitracin mouth- wash, 8-month study.....	*1094		
control research, outline of significant findings.....	135		
experience in Seventh Day Adventist and other children. Prince Georges and Mont- gomery Counties, Md., 1959.....	*209		
DENTAL CARIES—Continued			
prevention by fluoridation, 7-year statistics, Maryland children.....	*1087		
preventives, relative effectiveness of sodium and stannous fluorides, 12-month study, Delaware.....	*287		
prophylaxis, stannous fluoride-silic- cone paste, experimental use by Air Force research, use of radioisotope labeling.....	137		498
use of topical fluorides for children, survey of State and local programs.....	136		
DENTAL HEALTH			
attitudes of American Indians toward dental care.....	*1059		
campaign for primary school children, Stevens County, Wash., 1959.....	*213		
heredity factors in, symposium announce- ment.....	539		
DENTISTRY			
research developments.....	136		
DENTISTS			
career development program, Public Health Service dental officers.....	*1029		
DIABETES			
detection, Glover-Edwards glucose blood test kit.....	*678		
oral drugs for.....	1062		
screening programs, United States, 1959 data.....	*825		
DIET SURVEYS <i>see</i> Nutrition Surveys			
DISABLED <i>see</i> Handicapped; Rehabilitation			
DISASTERS			
public health and medical aspects of ex- plosion in Roseburg, Oreg.....	*727		
DISEASE OUTBREAKS			
<i>see also</i> name of disease			
summary of foodborne and waterborne out- breaks, 1960, and 10-year résumé.....	*915		
DISINFECTANTS			
in water, viricidal efficiency.....	*565		
DRUGS			
<i>see also</i> Antibiotics			
adverse reactions to, reporting by hospitals to Food and Drug Administration.....	215		
amphetamine, illegal sale of.....	1058		
dithiazanine formulations, effectiveness, school anthelmintic therapy program, Philadelphia.....	*1009		
for welfare agency clients.....	114		
narcotics, recommendations for control of sale and safe storage.....	1008		
new products, measures to evaluate.....	115		
out-of-hospital prescriptions, demand for prepayment.....	115		
psychotropic, patterns of prescribing for noninstitutional population, Health Insur- ance Plan of Greater New York study....	*481		
DYER LECTURE			
epidemiologic models in studies of vector- borne diseases.....	*753		

ECHINOCOCCOSIS

natural foci of; translated from Russian... *263

ECONOMICS, HEALTH

see also Insurance, Health
 comparative costs of medical care among
 different countries..... *655
 hospital and medical, in Michigan; publica-
 tion announcement..... 629
 interrelationship of poverty and disease.... *967
 measurement of medical care costs..... 113
 pancreatic cystic fibrosis, community chal-
 lenge..... *85

EDUCATION, HEALTH

see also Exhibits
 accident prevention program for children,
 Florida..... *37
 course for college students, effects on atti-
 tudes..... 145
 dental, for school children..... 144
 evaluation of high school textbooks..... 146
 "Pogo Primer for Parents (TV Division)";
 publication announcement..... 985
 venereal disease materials, Communicable
 Disease Center, PHS..... 836

EDUCATION, PROFESSIONAL

see also Announcements, Schools; Grants
 and Fellowships; Training
 effect on medical care trends..... 120
 seminars for public health administrators,
 Emory University and PHS..... *261

ELECTRONICS

application to medical devices and tech-
 niques..... 119
 artificial larynx, use and availability..... 998

ENCEPHALITIS

arthropod-borne viral, worldwide aspects;
 conference report..... *806

ENVIRONMENTAL HEALTH

and urban development, recommendations
 for coordinated health agency actions.... 315
 chemical hazards, evaluation..... 122
 environmental stresses, how public health
 workers can combat..... 121
 fringe area sanitation, outline of problems.. *309
 governmental responsibilities in..... *291
 problems of water, land, and air..... *633
 role of social scientists in; conference re-
 port 506
 services at Winter Olympic Games, Squaw
 Valley, Calif., 1960..... *431
 teaching of; recommendations of ad hoc
 committee of Association of Schools of
 Public Health..... *155

EPIDEMIOLOGIC NOTES

accidental drownings at home, United
 States, 1958..... 452

EPIDEMIOLOGIC NOTES—Continued

copper poisoning on shipboard..... 334
 fire prevention program, Mississippi County,
 Ark..... 1119
 Minamata disease (organic mercury poison-
 ing)..... 671
 mortality from infectious hepatitis, 1949-59.. 1006

EPIDEMIOLOGY

see also name of disease or condition
 and world medicine; conference report... *793
 epidemiologic models in studies of vector-
 borne diseases; R. E. Dyer lecture.... *753
 in Latin America; conference report..... *800
 laboratory-acquired infections, Texas State
 Department of Health..... *51
 need for epidemiologists in world medi-
 cine; conference report..... *797
 need for international research; confer-
 ence report..... *803
 use in study of inherited disease suscepti-
 bility *499

EVALUATION

of multiple screening by use of death rates,
 Baltimore study..... *1111
 of social restoration performance of public
 psychiatric hospitals, methodology..... *437
 problems, effectiveness of community mental
 health program, Minnesota study..... *975

EXHIBITS

cancer control, research, international as-
 pects, publications, PHS..... 344
 Federal and State radiological health goals,
 PHS 280
 science for life and health; International
 Health Exhibition, 1960-61, Rome..... 1022
 tobacco smoking: medical research and
 practice, PHS..... 914

FAMILY

psychotherapy (summary, Public Health
 Monogr. No. 64)..... 841

FILMS

descriptive announcements..... 56

FISH

kills, causes of and prevalence, United
 States..... 182
 toxic fin, recommendations for study of
 poisoning from..... 148

FLUORESCENT ANTIBODIES

technique for detection of gonorrhoea in
 asymptomatic females..... *93
 test for group A streptococcus, field appli-
 cation..... *651

FLUORIDATION			
for prevention of dental caries, 7-year statistics, Maryland children.....	*1087		
promotional techniques.....	137		
FLUORIDES			
sodium and stannous, relative effectiveness as dental caries preventives, 12-month study, Delaware.....	*287		
FOOD			
<i>see also</i> Food Poisoning; Milk frozen, time-temperature tolerance.....	148		
FOOD POISONING			
caused by staphylococcal infection in meat animals and meat workers.....	*879		
control, current status.....	*515		
from toxic fin fish, recommendations for study.....	148		
outbreak, possibly caused by <i>Salmonella infantis</i> in ham.....	*771		
two outbreaks among picnickers caused by <i>Staphylococcus aureus</i> in ham.....	*945		
waterborne and foodborne disease outbreaks, 1960 summary and 10-year résumé.....	*915		
FUMIGATION			
with methyl bromide, irritation from.....	*216		
GASTROENTERITIS			
<i>see also</i> Food Poisoning			
outbreak from well water at resort, Seattle, Wash.....	*712		
reporting of gastroenteric morbidity.....	654		
GENETICS			
inherited disease susceptibility, epidemiologic approach to study of.....	*499		
GLAUCOMA			
detection programs, PHS.....	902		
incidence in relatives of patients, study.....	151		
screening data, use of port-a-punch record and tabulating system to evaluate.....	*1107		
sustained screening program, Brookline, Mass.....	*420		
GONORRHEA			
detection in asymptomatic females by fluorescent antibody method.....	*93		
in males, treatment with synnematin B....	*630		
GOVERNMENT			
employees, health services for.....	*185		
Federal, responsibilities in metropolitan areas.....	*535		
responsibilities in environmental health....	*291		
GRANTS AND FELLOWSHIPS			
fellowships for cancer research, International Union Against Cancer.....	564		
fellowships for U.S. citizens, WHO.....	1005		
grants for research in radiological health, PHS.....	787		
residency fellowship in epidemiology, New York State Health Department.....	564		
HALOGEN COMPOUNDS			
iodine and chlorine in swimming pool water, resistance of <i>Alcaligenes faecalis</i> to.....	*529		
HANDICAPPED			
<i>see also</i> Rehabilitation			
"Distribution and Use of Hearing Aids, Wheel Chairs, Braces, and Artificial Limbs, United States, July 1958-June 1959"; publication announcement.....	726		
employment outlook and education needs..	*923		
HAWAII			
public health conditions and activities....	1063		
HEALTH ASSOCIATIONS			
lay, and health centers established by citizens, Anne Arundel County, Md.....	*67		
HEALTH DEPARTMENTS			
activities, patterns of growth, Ohio State; conference report.....	837		
emergency psychiatric services for mentally ill, Washington County, Md.....	*357		
employment of part-time inspectors of X-ray installations, New York State.....	*247		
evaluation of water laboratories through use of reference samples, California State.....	*783		
inservice training program for sanitarians, Virginia State.....	*83		
laboratory-acquired infections, Texas State, 1930-60, and recommendations for prevention.....	*51		
local, need for statisticians.....	*995		
measurement of nursing time, Alachua County, Fla.....	*524		
radiological health activities, New York City.....	*583		
reorganization, New York State.....	107		
State, statisticians in; recruitment, training, salaries.....	*385		
sustained glaucoma screening program, Brookline, Mass.....	*420		
use of teenage student volunteers, Baltimore City.....	*665		
"well-oldsters," appraisal of health, Toledo, Ohio.....	744		
HEALTH SERVICES			
and welfare services in Puerto Rico, coordination.....	*425		
and welfare services, prediction of case-load through routine psychiatric screening, study of military recruits.....	134		
at Winter Olympic Games, Squaw Valley, Calif., 1960.....	*431		
community building for, Philadelphia....	237		
for government employees.....	*185		
for migrant farmworkers and families....	*469		
hospital-centered, Bergen County, N.J....	107		
improvement through manipulation of organizational factors.....	*618		
in Hawaii.....	1063		

HEARING		HOUSING—Continued	
conservation programs in industry.....	124	sanitation standards, Louisville, Ky.; legal	
HEART DISEASE		note.....	378
coronary, 5-year study of men in industry..	129	ILLEGITIMACY	
mortality, ethnic and geographic data,		in New York City, ethnic and socioeco-	
United States.....	130	nomic data.....	138
rheumatic, and rheumatic fever in children,		IMMUNIZATION	
prevalence, Nashville, Tenn.....	131	<i>see also</i> Vaccination; Vaccines	
rheumatic, and rheumatic fever in college		considerations for progress in; conference	
freshmen, 5-year study.....	131	report.....	*811
screening of school children by tape record-		INDIANS, AMERICAN	
ing, field test, Chicago.....	143	attitudes toward dental care.....	*1059
study course for multidisciplines, Univer-		hospitals for.....	870
sity of Oklahoma Medical Center.....	*361	sanitary facilities construction program...	*317
HELMINTH INFECTIONS		INDIGENT <i>see</i> Public Welfare	
effectiveness of dithiazanine formulations		INDONESIA	
against, school therapy program, Phila-		educational program for medical students..	119
delphia.....	*1009	INDUSTRIAL HYGIENE <i>see</i> Occupational	
HEPATITIS		Health	
infectious, U.S. mortality data, 1949-59;		INFANTS	
epidemiologic note.....	1006	deaths from Cocksackie B virus infection,	
infectious, waterborne epidemic from chlo-		St. Louis, Mo.....	617
rinated municipal supply, New York State..	*745	linoleic acid in diets, significance of.....	147
HISTOPLASMOSIS		ophthalmia neonatorum in, prophylactic	
epidemic attributed to starling excreta,		measures in relation to incidence, New	
Mexico, Mo.....	150	York City.....	138
isolation of <i>Histoplasma capsulatum</i> from		premature, completeness of death registra-	
soil in Washington, D.C.....	*591	tion, North Carolina, 1959 study.....	*717
HOSPITALS		poliomyelitis vaccination status, 1960.....	24
and nursing homes, facilities for long-term		INFECTIOUS DISEASES	
patient care, American Hospital Associa-		mortality from, United States, 1949-59.....	*159
tion and Public Health Service planning		INFLUENZA	
committee.....	780	parainfluenza viruses, isolation from infants	
areawide planning for facilities.....	1039	and children, southern Louisiana.....	*765
code for press relations.....	725	surveillance, United States, 1960.....	*1099
comprehensive hospital-centered health		vaccination recommendations.....	954
services, Bergen County, N.J., experi-		vaccines, relative merits of aqueous and ad-	
ment.....	107	juvant in two-dose schedule.....	*411
for American Indians.....	870	INSECTICIDES	
laboratories, role in alerting health depart-		DDVP vapor for aircraft disinsection, pre-	
ments to infectious diseases.....	108	liminary tests.....	*777
of different sizes, comparative study of		diethyl toluamide and M-2020, relative	
uterine cancer patients, Connecticut,		effectiveness against <i>Aedes scapularis</i>	
1935-51.....	*987	(Rondani).....	*179
public interest in, and its relation to		INSURANCE, HEALTH	
management.....	*401	dental care, service requirements in simu-	
HOSPITALS, MENTAL		lated prepayment plan, Group Health	
progress in reporting mental hospital statis-		Association, Washington, D.C.....	*11
tics; conference report.....	925	group practice prepayment plans, enroll-	
social restoration performance, evaluation		ment of Federal employees.....	117
methodology.....	*437	need for national prepaid program.....	120
HOUSING		out-of-hospital prescription drugs, demand	
and population, availability of 1960 census		for prepayment.....	115
data for small areas.....	938	patterns of prescribing psychotropic drugs	
clinic for persons convicted in housing		for noninstitutional population, Health	
court, Baltimore.....	*693	Insurance Plan of Greater New York	
for the aged, coordination of Federal		study.....	*481
programs.....	1027	programs, enrollment of Federal em-	
		ployees.....	942

INSURANCE, HEALTH—Continued		
psychiatric care, research project on feasibility of including, Group Health Insurance, Inc.....	117	
union-management health plans, pattern—	116	
voluntary; coverage, costs, and controls---	*1	
INTERNATIONAL HEALTH		
<i>see also</i> name of country; World Health Organization		
arthropod-borne viral encephalitides, worldwide aspects; conference report.....	*806	
development of epidemiologic research programs; conference report.....	*803	
functions of WHO in world medicine; conference report.....	*793	
immunization, considerations for progress in; conference report.....	*811	
implications of water supply on public health	*296	
International Congress on Occupational Health	398	
International Health Exhibition, 1960-61, Rome	1022	
international mail pouch.....	66,	
154, 430, 642, 936, 986,	1093	
need for epidemiologists in world medicine; conference report.....	*797	
JUVENILE DELINQUENCY		
unemployed out-of-school youth in urban areas	670	
LABORATORIES		
design of California State radiological laboratory	125	
hospital, role in alerting health departments to infectious diseases.....	108	
infections acquired in, Texas State Department of Health, 1930-60, and recommendations for prevention.....	*51	
water, use of reference samples to evaluate analysis performance, California.....	*783	
LABORATORY EQUIPMENT		
Glover-Edwards glucose blood test kit for diabetes detection.....	*678	
LABORATORY TESTS AND TECHNIQUES		
bacteriological analysis of ham incriminated in food-poisoning incident.....	*771	
cotton swab technique for detection of viruses on nonporous surfaces.....	*453	
fluorescent antibody technique for detection of gonorrhea in asymptomatic females...	*93	
fluorescent antibody test for group A streptococcus, field application.....	*651	
isolation of parainfluenza viruses.....	*765	
techniques for maintenance of germfree animals	122	
unheated serum and new improved antigen suspension for rapid reagin test for syphilis.....	*933	
USR test for syphilis screening, evaluation...	*447	
LABORATORY TESTS AND TECHNIQUES—Continued		
VDRL flocculation antigen in Kolmer complement fixation test for syphilis.....	*832	
LATIN AMERICA		
epidemiologic approach to health problems; conference report.....	*800	
LAWS AND REGULATIONS		
revised food ordinance for eating and drinking establishments, PHS.....	146	
LEGAL NOTES		
air pollution control, liability for noxious odors.....	1037	
air pollution from fires in refuse dump, abatement orders.....	852	
ordinance regulating sand pit operations in residential area.....	691	
recordkeeping requirements for business affected with a public interest.....	249	
sanitation standards for housing, Louisville, Ky.....	378	
LEPTOSPIROSIS		
<i>Leptospira canicola</i> , isolation from skunks in Louisiana.....	*335	
LEUKEMIA		
virus-caused, extraction of purified virus from blood of laboratory rats with.....	1079	
MALARIA		
monkey, experimental transmission to man through bite of infected mosquito.....	42	
MANPOWER		
medical, health careers program, Virginia...	*73	
physician-population ratios, 1940-49, 1950-59.....	*1051	
MASTITIS		
nocardial, susceptibility of normal animals exposed orally to <i>Nocardia asteroides</i> in milk.....	*889	
MATERNAL HEALTH		
emergency childbirth service, civil defense..	*78	
health status of unwed mother and her infant, New York City data.....	138	
MEDICAL CARE		
administrators, need for.....	114	
criteria for appraising quality.....	112	
in outpatient clinics, evaluation of quality from clinic records.....	118	
in Puerto Rico, study.....	*1045	
integrated medical and hospital service, Maryland.....	117	
intercountry expenditures.....	*655	
measurement of costs.....	113	
optometrists' role in health maintenance of patients.....	118	
physicians in group practice, PHS survey...	116	
survey interview technique to identify patterns of obtaining.....	115	

MEDICAL CARE PLANS <i>see</i> Insurance, Health	
MENINGITIS	
eosinophilic, outbreak on Tahiti.....	856
MENTAL DEFICIENCY	
mentally retarded adults, rehabilitation....	134
mentally retarded children, proposals for integrated statewide program, Maryland..	158
MENTAL HEALTH	
community planning for.....	*489
community program, administrative prob- lems, Onondaga County, N.Y.....	*979
community program, problems of evaluating effectiveness, Minnesota study.....	*975
coordinated rehabilitation program for men- tally ill, Washington State.....	132
detection of physical and developmental ab- normalities in preschool children, 9-month study, Montgomery County (Md.) clinics..	139
emergency psychiatric services for mentally ill, Washington County, Md.....	*357
family group therapy (summary, Public Health Monogr. No. 64).....	841
group social activity for convalescing men- tal patients, Detroit.....	*475
outpatient psychiatric clinics, Maryland, 1958-59 (summary, Public Health Monogr. No. 65).....	1041
"Planning of Facilities for Mental Health Service," publication announcement....	424
programs, methods for evaluating.....	134
programs, relationships with public health programs.....	*621
psychiatric case register, Maryland.....	446
psychiatric evaluation in the home, Phila- delphia.....	133
rehabilitation of hospitalized mentally ill, Vermont.....	132
scope of national problem and recommenda- tions for action.....	966
services, State-local evaluation program, California.....	133
use of outpatient psychiatric clinics, effect of location on, Minnesota.....	*239
MENTAL HOSPITALS <i>see</i> Hospitals, Mental	
METABOLIC DISEASES	
<i>see also</i> name of disease	
research, National Institute of Arthritis and Metabolic Diseases, PHS, 1950-60; prog- ress report.....	788
METROPOLITANISM <i>see</i> Urban Development	
MIGRANTS	
diet patterns among Negro farm laborers, Florida.....	*349
educational and health services needs; statement by Abraham Ribicoff.....	770
health needs.....	*469
uniform personal health record for, PHS...	533
MILK	
infected with <i>Nocardia asteroides</i> , tests for oral infectivity of normal animals and thermal resistance.....	152, *889
MILK —Continued	
radionuclides in, mathematical models.....	*681
sanitation honor roll, 1959-60.....	363
sanitation honor roll, 1959-61.....	939
MINAMATA DISEASE	
epidemiologic note.....	671
MOLLUSCICIDES <i>see</i> Pesticides	
MONOGRAPHS	
No. 64. Family group therapy <i>by</i> John E. Bell (PHS Pub. No. 826). Summary article	841
No. 65. Methodological study of population of outpatient psychiatric clinics, Mary- land, 1958-59 <i>by</i> Anita K. Bahn (PHS Pub. No. 821). Summary article.....	1041
No. 66. Baccalaureate origins of 1950-59 medical graduates <i>by</i> William A. Manuel and Marion E. Altenderfer (PHS Pub. No. 845). Summary article.....	937
No. 67. Principles and procedures in the evaluation of screening for disease <i>by</i> Robert M. Thorner and Quentin R. Remoin (PHS Pub. No. 846). Summary article	1123
MORBIDITY <i>see</i> Vital Statistics	
MORTALITY <i>see</i> Vital Statistics	
MOSQUITOES	
<i>Aedes scapularis</i> (Rondani), relative effec- tiveness of diethyl toluamide and M-2020 against	*179
MULTIPLE SCREENING	
clinic, characteristics of participants and nonparticipants, Baltimore.....	*596
use of death rates to evaluate, Baltimore..	*1111
NARCOTICS <i>see</i> Drugs	
NATIONAL HEALTH	
impact of public health practices and serv- ices on society.....	*277
problems and programs, current aspects...	*845
NOCARDIA ASTEROIDES	
in milk, test for oral infectivity of normal animals and thermal resistance.....	152, *889
NURSES	
graduate students, general public health nursing experience in a venereal disease agency.....	*608
public health, expanding responsibilities..	*857
public health, role in alcoholic rehabilita- tion, Maryland.....	*379
role in accident prevention.....	*853
student, mental and physical health of....	*737
NURSING HOMES	
aides, number trained since 1959.....	632
environmental conditions in.....	125
NURSING SERVICES	
measurement of nursing time, Alachua County Health Department, Fla.....	*524
public health nursing in New Jersey; cri- tique	*521

NUTRITION		
linoleic acid in infant diets, significance.....	147	
optimum, objective for home care programs	146	
value of waste-grown algae.....	128	
NUTRITION SURVEYS		
of Negro farm laborers, Florida.....	*349	
OCCUPATIONAL HEALTH		
accidents, occupations of men dying from, United States, 1950.....	*817	
effect of staphylococcal infection in meat animals on meat workers.....	*879	
hazards in uranium mines.....	672	
health services for government employees..	*185	
hearing conservation programs in industry..	124	
international congress on; conference report	398	
notes.....	650	
programs, primary needs.....	*1019	
responsibilities of industrial physicians.....	*645	
OPHTHALMIA NEONATORUM		
prophylactic measures in relation to incidence, New York City.....	138	
OPTOMETRISTS		
role in health maintenance of patients.....	118	
OSTEOPOROSIS		
high calcium diet therapy.....	974	
PANCREATIC CYSTIC FIBROSIS		
economic concern of family and community..	*85	
PESTICIDES		
<i>see also</i> Insecticides		
acrolein, to control <i>Australorbis glabratus</i> in Puerto Rico.....	*461	
PHENYLKETONURIA		
casefinding program, California.....	150	
PHYSICIANS		
and population ratios, 1940-49, 1950-59....	*1051	
attitude toward administrative careers....	111	
industrial, role in preventive medicine....	*645	
in group practice, PHS survey.....	116	
interdependence with pharmacists.....	1117	
residency training, PHS hospitals.....	*877	
undergraduate colleges of (summary, Public Health Monogr. No. 66).....	937	
POISONING		
<i>see also</i> Food Poisoning		
control centers, effect of labeling requirements for hazardous substances on workload.....	878	
copper, from shipboard vending machine; epidemiologic note.....	334	
from cadmium-plated refrigerator shelf used as barbecue grill.....	*543	
mercury, Minamata disease; epidemiologic note.....	671	
POLIOMYELITIS		
control, recommendations of Surgeon General's Committee, 1961.....	375	
POLIOMYELITIS—Continued		
epidemiologic patterns in relation to use of Salk vaccine, Des Moines, Iowa, and Kansas City, Mo.....	*553	
oral vaccination program, Cincinnati, 1960..	*369	
outbreak in Seattle-King County, Wash., 1959, epidemiologic patterns.....	*166	
vaccination status, September 1960.....	24	
vaccine, community spread of orally administered attenuated strains, Minnesota studies.....	*903	
POPULATION		
and housing, availability of 1960 census data for small areas.....	938	
relation to community planning for health..	108	
studies, analysis of methodology; conference report.....	955	
studies, Tecumseh, Mich.....	*963	
PREVENTIVE MEDICINE		
role of industrial physicians in.....	*645	
PSYCHIATRIC CLINICS <i>see</i> Mental Health		
PUBLICATIONS		
About syphilis and gonorrhoea (PHS Pub. No. 410, Health Information Series No. 84).....	843	
Activities of the National Institutes of Health in the field of gerontology, January 1961 (PHS Pub. No. 841).....	943	
Agricultural migrants selected films (PHS Pub. No. 869).....	1043	
Annual Report, U.S. Department of Health, Education, and Welfare (HEW Pub., unnumbered)	275	
Arden House Conference on Tuberculosis (PHS Pub. No. 784).....	459	
Aseptic nursing techniques. A survey of maternity departments in thirteen medical centers (PHS Pub. No. 788).....	367	
Atmospheric emissions from petroleum refineries. A guide for measurement and control (PHS Pub. No. 763).....	91	
Cancer motion picture guide (PHS Pub. No. 848).....	943	
Cancer services, facilities, and programs in the United States, 1960 (PHS Pub. No. 14, revised).....	642	
Cataract and glaucoma. Hope through research (PHS Pub. No. 793, Health Information Series No. 99).....	735	
Children who receive services from public child welfare agencies (Children's Bureau Pub. No. 387).....	367	
Clean water. A challenge to the nation (PHS Pub. No. 816).....	367	
Clean water. A national resource (PHS Pub. No. 828C).....	843	
Clinical center patient admission procedures (PHS Pub. No. 500).....	1043	
Comparability of reports on occupation from vital records and the 1950 census (Vital		

PUBLICATIONS—Continued

Statistics—Special Reports, vol. 53, No. 1, June 1961)-----	1043
Costly time lag (PHS Pub. No. 813)-----	458
Dentist in the Public Health Service (PHS Pub. No. 475, revised)-----	551
Dog in medical research (PHS Pub. No. 312, revised)-----	843
Directory of State and Territorial health authorities (PHS Pub. No. 75, revised)---	735
Division of General Medical Sciences (PHS Pub. No. 757)-----	551
Environmental health planning guide (PHS Pub. No. 823)-----	551
Enzymology in the USSR. A review of the literature (PHS Pub. No. 782)-----	367
Field rodents. Public health importance and control (PHS Pub. No. 797)-----	459
Film reference guide for medicine and allied sciences (PHS Pub. No. 487)-----	1043
Fish, wildlife, and clean water (PHS Pub. No. 828B)-----	843
Fluorescent antibody techniques in the diagnosis of communicable diseases (PHS Pub. No. 729)-----	183
Gonococcus. Procedures for isolation and identification (PHS Pub. No. 499)-----	275
Health information for travel in Africa, including Malagasy Republic and neighboring islands (PHS Pub. No. 748D)-----	275
Health information for travel in Asia, including Japan, Indonesia, the Philippines, Australia, and New Zealand (PHS Pub. No. 748C)-----	275
Health information for travel in Europe (PHS Pub. No. 748)-----	275
Health information for travel in Mexico, Central and South America, and the Caribbean (PHS Pub. No. 748B)-----	275
Health leaflets for Spanish-speaking migrant families (PHS Pub. No. 795)-----	367
Health manpower source book. Medical school alumni (PHS Pub. No. 263, section 11)-----	735
Health manpower source book. Physicians' age, type of practice, and location (PHS Pub. No. 263, section 10)-----	183
Health statistics from the U.S. National Health Survey:	
Acute conditions, geographic distribution, United States, July 1958-June 1959 (PHS Pub. No. 584-B23)-----	91
Acute conditions, incidence and associated disability, United States, July 1958-June 1959 (PHS Pub. No. 584-B18)---	91
Acute conditions, seasonal variations, United States, July 1957-June 1960 (PHS Pub. No. 584-B24)-----	642
Arthritis and rheumatism reported in interviews, United States, July 1957-June 1959 (PHS Pub. No. 584-B20)---	91

PUBLICATIONS—Continued

Attitudes toward cooperation in a health survey examination (PHS Pub. No. 584-D6)-----	1043
Cooperation in health examination surveys (PHS Pub. No. 584-D2)-----	275
Diabetes reported in interviews, United States, July 1957-June 1959 (PHS Pub. No. 584-B21)-----	91
Distribution and use of hearing aids, wheel chairs, braces, and artificial limbs, United States, July 1958-June 1959 (PHS Pub. No. 584-B27)-----	1043
Health insurance, interim report, United States, July 1957-June 1959 (PHS Pub. No. 584-B26)-----	642
Health interview responses compared with medical records (PHS Pub. No. 584-D5)-----	1043
Hernias reported in interviews, United States, July 1957-June 1959 (PHS Pub. No. 584-B25)-----	642
Hospital utilization in the last year of life (PHS Pub. No. 584-D3)-----	642
Loss of teeth, United States, July 1957-June 1958 (PHS Pub. No. 584-B22)---	91
Older persons, selected health characteristics, United States, July 1957-June 1959 (PHS Pub. No. 584-C4)-----	91
Reporting hospitalization in the health interview survey (PHS Pub. No. 584-D4)-----	642
Selected health characteristics, by area, geographic divisions, and large metropolitan areas, United States, July 1957-June 1959 (PHS Pub. No. 584-C6)-----	642
Selected health characteristics, by area, geographic regions, and urban-rural residence, United States, July 1957-June 1959 (PHS Pub. No. 584-C5)-----	642
Volume of physician visits, United States, July 1957-June 1959 (PHS Pub. No. 584-B19)-----	91
Highlights of progress in mental health research, 1960 (PHS Pub. No. 824)-----	843
Highlights of research progress in allergy and infectious diseases, 1960 (PHS Pub. No. 829)-----	735
Highlights of research progress in general medical sciences, 1960 (PHS Pub. No. 815)-----	943
Hill-Burton program. Progress report (PHS Pub. No. 880)-----	1125
Hope. The anchor of life (Department of Health, Education, and Welfare Pub., unnumbered)-----	551
Hospital electrical facilities (PHS Pub. No. 818)-----	643
Hospital equipment planning guide (PHS Pub. No. 822, revised)-----	843
Indians on Federal reservations in the United States. A digest. Phoenix Area	

PUBLICATIONS—Continued

(PHS Pub. No. 615, part 6)-----	459
Industrial waste guide to the potato chip industry (PHS Pub. No. 756)-----	183
Living longer. Questions and answers on the health of our older citizens (PHS Pub. No. 733)-----	91
Living waters (PHS Pub. No. 382, revised)-----	1043
Manual for the microscopical diagnosis of malaria in man (PHS Pub. No. 796)-----	551
Medical care in the United States. The role of the Public Health Service (PHS Pub. No. 862)-----	1043
Medical research in the U.S.S.R. A selected and annotated list of references (PHS Pub. No. 710)-----	91
Mental health motion pictures. A selected guide (PHS Pub. No. 218, revised)-----	275
Municipal water facilities inventory as of January 1, 1958 (PHS Pub. No. 775, vols. 1-9)-----	843
National goals in air pollution research. Report of the Surgeon General's ad hoc task group on air pollution research goals (PHS Pub. No. 804)-----	183
National Institutes of Health scientific directory, 1960, and annual bibliography, 1960 (PHS Pub. No. 831, Public Health Bibliography Series No. 34)-----	943
National water quality network, 1960 (PHS Pub. No. 663)-----	843
Noise and hearing. Relationship of industrial noise to hearing acuity in a controlled population (PHS Pub. No. 850)-----	1125
Nursing home standards guide (PHS Pub. No. 827)-----	643
Organization and staffing for local health services, January 1, 1960 (PHS Pub. No. 682)-----	735
Outpatient psychiatric clinics directory, 1959-----	1043
Parkinson's disease. Hope through research (PHS Pub. No. 811, Health Information Series No. 100)-----	1125
Patients in mental institutions. Part II. Public hospitals for the mentally ill (PHS Pub. No. 781)-----	275
Patients in mental institutions, 1959. Part II. Public hospitals for the mentally ill (PHS Pub. No. 820)-----	1125
Pollution-caused fish kills in 1960 (PHS Pub. No. 847)-----	943
Poultry diseases in public health. Review for epidemiologists (PHS Pub. No. 767)-----	91
Preliminary directory of medical groups in the United States, 1959 (PHS Pub. No. 817)-----	275
Private support for mental health: A study of the support, by foundations and other private national granting agencies, for	

PUBLICATIONS—Continued

mental health and related disciplines (PHS Pub. No. 838)-----	943
Proceedings 1960 annual conference of the Surgeon General, Public Health Service, and the Chief, Children's Bureau, with State and Territorial health officers (PHS Pub. No. 830)-----	643
Proceedings, 1961 annual conference of the Surgeon General, Public Health Service, with State and Territorial mental health authorities (PHS Pub. No. 851)-----	735
Proceedings: conference on physiological aspects of water quality-----	643
Proceedings. The national conference on water pollution (PHS Pub. No. 819)-----	642
Progress against cancer, 1960 (PHS Pub. No. 812)-----	943
Project grants to develop and demonstrate better methods of providing community health services for the chronically ill and aged (PHS Pub. No. 881)-----	1125
Prototype hospital. Fallout protected (PHS Pub. No. 791)-----	367
Psychopharmacology service center (PHS Pub. No. 809)-----	843
Public health and clean water (PHS Pub. No. 828)-----	843
Public Health Service film catalog (PHS Pub. No. 776)-----	1125
Public Health Service grants and awards by the National Institutes of Health, fiscal year 1960:	
Health research facilities construction and research projects (PHS Pub. No. 777, part 1)-----	183
Training grants, research fellowships and traineeships (PHS Pub. No. 777, part 2)-----	183
Radiological health handbook (Order No. PB 121 748R)-----	642
Recreation and clean water (PHS Pub. No. 828A)-----	843
Refuse collection and disposal. An annotated bibliography, 1958-1959 (PHS Pub. No. 91, Public Health Bibliography Series No. 4)-----	367
Register of air pollution analyses, January 1, 1956-June 30, 1959 (PHS Pub. No. 610, vol. 2)-----	643
Reported tuberculosis data (PHS Pub. No. 638)-----	275
Report on social security programs in the Soviet Union (Social Security Administration Pub., unnumbered)-----	459
Research grants in environmental health (PHS Pub. No. 870)-----	1125
Research highlights in aging, 1960 (PHS Pub. No. 854)-----	943
Research programs in aging (PHS Pub. No. 836)-----	943

PUBLICATIONS—Continued

Rural health. Selected annotated refer-
ences, January 1953–June 1960 (Agricul-
ture Misc. Pub. No. 860)----- 1043

Russian drug index (PHS Pub. No. 814)---- 642

Salmonella; salmonella infections. Bibliog-
raphy of literature, 1955–April 1960 (PHS
Pub. No. 803, Bibliography Series No. 33) _ 642

Sanitation in the control of insects and
rodents of public health importance.
Insect control series (PHS Pub. No. 772,
part 4, revised)----- 183

School health program. An outline for
school and community (PHS Pub. No.
834)----- 643

Scientist in the Public Health Service (PHS
Pub. No. 41, revised 1961)----- 551

Sewage and water works construction, 1960
(PHS Pub. No. 758)----- 843

Some facts about suicide, causes and pre-
vention (PHS Pub. No. 852, Health In-
formation Series No. 101)----- 1125

So you're going abroad. Health hints for
travelers (PHS Pub. No. 748A)----- 275

Staphylococcal disease. Selected materials
on nursing aspects (PHS Pub. No. 764) _ 91

Study of influenza. A translation from the
Russian (PHS Pub. No. 792)----- 367

Study of student nurse perception of patient
attitudes (PHS Pub. No. 769)----- 459

Suggested system of uniform expense ac-
counting for nursing homes and related
facilities (PHS Pub. No. 835)----- 735

Syphilis. Modern diagnosis and manage-
ment (PHS Pub. No. 743)----- 183

Tuberculosis beds in hospitals and sana-
toria, April 1, 1959 (PHS Pub. No. 801) _ 275

University curricula in radiological health.
Symposium held at Princeton, N.J.,
August 2–4, 1960 (PHS Pub., unnum-
bered)----- 642

VD fact sheet, 1960. Basic statistics on
venereal disease problem in the United
States (PHS Pub. No. 341, 17th revision) _ 459

Veterans with mental disorders resident in
Veterans Administration Hospitals (PHS
Pub. No. 868)----- 1125

Water and sewer bond sales in the United
States (PHS Pub. No. 837)----- 735

Your children and their gangs (Children's
Bureau Pub. No. 384)----- 459

PUBLIC HEALTH *see* National Health

PUBLIC WELFARE

drugs for welfare agency clients----- 114

effects of compulsory support of parents by
adult children----- 316

medical care for needy children, responsibili-
ties of States----- 140

PUERTO RICO

coordination of health and welfare services_ *425
medical care study----- *1045

Q FEVER

antibodies in dairy cattle and humans, sur-
vey, Washington State----- *257

outbreak from airborne dissemination of
Cowdria burnetii, California----- 152

RABIES

control program, southern Ohio, 1957–58___ *281

outbreak in Imperial Valley, Calif., and
Baja California, control measures, 1959–
60 ----- *391

RADIATION

see also Ultraviolet Rays

biological response of beagles to body
irradiation ----- *242

control, basic requirements for----- *571

control of common hazards, New York City _ *583

employment of part-time inspectors of X-ray
installations, New York State----- *247

in uranium mines----- 672

radioisotope labeling in dental research___ 498

radiological health goals, Federal and State,
PHS exhibit----- 280

radiological laboratory, California State__ 125

radionuclides in milk, mathematical models_ *681

RECORDS

recordkeeping requirements for business
affected with a public interest; legal note_ 249

use of port-a-punch record and tabulating
system in glaucoma screening program__ *1107

RECRUITMENT

of medical manpower, health careers pro-
gram, Virginia----- *73

teenage student volunteers, Baltimore City
Health Department----- *665

REHABILITATION

electronic artificial larynx, use and avail-
ability ----- 998

of convalescing mental patients through
group social activity, Detroit----- *475

of hospitalized mentally ill, Vermont----- 132

of mentally ill, coordinated program, Wash-
ington State----- 132

of mentally retarded adults----- 134

RESEARCH

alcoholism, overview of----- *223

clinical, Tulane University and PHS hos-
pital, New Orleans----- 641

collaborative, problems of statisticians in_ *43

community-based, of chronic diseases---- 109

highlights of 1960, National Institutes of
Health, PHS----- 752

National Institute of Arthritis and Meta-
bolic Diseases, PHS, 1950–60; progress
report ----- 788

ROCKY MOUNTAIN SPOTTED FEVER	
complement-fixing antibodies against <i>Rickettsia rickettsii</i> in serums of black-tailed jack rabbits, Lakin, Kans.....	*1120
RURAL HEALTH	
health centers established by citizens, Anne Arundel County, Md.....	*67
SAFETY <i>see</i> Accidents	
SALMONELLA	
<i>infantis</i> , isolation from ham in food-poisoning incident.....	*771
SANITARIANS	
inservice training program for, Virginia State Health Department.....	*83
SANITATION	
<i>see also</i> specific type of sanitation	
environmental, community-oriented approach, Pennsylvania.....	123
food service establishments, statewide evaluation of, Georgia.....	147
fringe area, outline of problems.....	*309
housing standards; legal note.....	378
restaurant, model food ordinance, PHS.....	146
sanitary facilities construction program for American Indians and Alaska natives	*317
swimming pool, significance of <i>Alcaligenes faecalis</i> in.....	*529
SCHOOL HEALTH SERVICES	
alcohol education program, Minnesota.....	896
anthelmintic therapy program, effectiveness of dithiazanine formulations, Philadelphia	*1009
dental health campaign for primary school children, Stevens County, Wash., 1959..	*213
dental health education.....	144
for children with behavior problems, Great Falls, Mont.....	143
heart disease screening by tape recording, mass field test, Chicago.....	143
manual for teachers, Brookline, Mass., publication announcement.....	805
misconceptions regarding partially seeing child	145
periodic school medical examinations, evaluation	141
physical fitness programs, recommendations	August iv
role of school health workers in community health practice.....	142
sex education program, San Diego, Calif..	143
teacher's contributions to eye health.....	145
SCIENCE	
manuscripts, formation of committee to preserve for history.....	962
natural, review of progress in a quarter century.....	*57
SCREENING TESTS	
evaluation of, principles and procedures (summary, Public Health Monogr. No. 67).....	1123
SEWAGE <i>see</i> Wastes	
SHIGELLOSIS	
epidemics, Virginia, 1957-58.....	*219
SNAILS	
<i>Australorbis glabratus</i> , control with acrolein, Puerto Rico.....	*461
SNAKES	
antivenin for bites of South American coral snake in neutralization of North American coral snake venom.....	*540
SOCIAL SCIENTISTS	
role in environmental health; conference report.....	506
SOCIAL WORKERS	
in Jewish homes for the aged, number and functions.....	*625
SOCIOECONOMIC STATUS	
relationship to mortality, United States; review of literature.....	*1081
STAPHYLOCOCCUS	
<i>aureus</i> , incidence in domestic animals.....	*673
<i>aureus</i> , isolation from ham in two food poisoning outbreaks among picnickers.....	*945
infection in meat animals and meat workers	*879
STATISTICIANS	
in collaborative research, problems of.....	*43
in State health departments; recruitment, training, salaries.....	*385
role in city health departments.....	*995
STERILIZATION	
bactericidal effect of ultraviolet rays on surgical instrument table.....	*97
STREPTOCOCCUS	
control program, objectives, Brookline, Mass. group A, identification by fluorescent antibody technique under field conditions.....	*651
group A, routine use of fluorescent antibody tests for identifying.....	130
STROKE	
"Strike Back at Stroke," PHS publication, evaluation by Kentucky State Health Department	1124
SURVEYS	
use of interview technique to identify patterns of obtaining medical care.....	115
SWIMMING POOLS	
iodine-disinfected, significance of <i>Alcaligenes faecalis</i> in.....	*529
isolation of enteric viruses from, Albany, N.Y., 1959.....	*199
SYPHILIS	
early, treatment with erythromycin.....	*929
primary and secondary, reported cases, United States.....	*999
rapid reagin test for, using unheated serum and new improved antigen suspension....	*933
use of USR test for screening, evaluation..	*447

SYPHILIS—Continued		
VDRL flocculation antigen in Kolmer complement fixation test.....		*832
TAHITI		
outbreak of eosinophilic meningitis.....		856
TESTS <i>see</i> Laboratory Tests and Techniques		
TOBACCO SMOKING		
medical research and practice; PHS exhibit..		914
TRAFFIC SAFETY <i>see</i> Accidents		
TRAINING		
career development program, Public Health Service dental officers.....		*1029
graduate nursing students, general public health nursing experience in a venereal disease agency.....		*603
in environmental health; recommendations of ad hoc committee of Association of Schools of Public Health.....		*155
heart disease course for multidisciplines, University of Oklahoma Medical Center..		*361
nursing home aides, number trained since 1959.....		632
principles of epidemiology for nurses, PHS..		103
resident physicians, PHS hospitals.....		*877
sanitarians, inservice program for, Virginia State Health Department.....		*83
TRAINING COURSES		
<i>see also</i> Announcements, Schools		
care of premature infants, 1961, New York Hospital-Cornell Medical Center.....		550
"CDC Training Bulletin, July 1, 1961, to June 30, 1962"; publication announcement.....		724
Communicable Disease Center, PHS, 1961-62.....		640
dental education, University of North Carolina School of Public Health.....		355
environmental health, 1961-62, PHS.....		549
epidemiology, for nurses in communicable disease control, Communicable Disease Center, PHS.....		1033
hospital administration, Cornell University..		355
medical care administration, University of Michigan School of Public Health.....		355
statistics in the health sciences, University of Minnesota.....		272
water pollution control, Rutgers University..		355
TRANSLATIONS		
foreign literature selections from <i>Scientific Information Reports</i>	273, 734,	1028
from Russian; natural foci of infection of some helminthiases.....		*263
Russian biological literature, announcement of publications.....		77
TRENDS		
"Health, Education, and Welfare Trends," 1961 edition, publication announcement..		1122
TRICHINOSIS		
natural foci of; translated from Russian...		*263
TUBERCULOSIS		
casefinding programs, current aspects.....		*871
casefinding, use of tine test.....		796
decline in Alaska, 1949-51 to 1960.....		*19
TYPHOID FEVER		
epidemic after wedding reception, Louisiana, 1960.....		*427
ULTRAVIOLET RAYS		
bactericidal effect on surgical instrument table.....		*97
URBAN DEVELOPMENT		
and environmental health, recommendations for coordinated health agency actions...		315
Federal responsibilities in metropolitan areas		*535
U.S.S.R. <i>see</i> Translations		
VACCINATION		
<i>see also</i> Immunization		
establishment of tradition.....		497
influenza, recommendations.....		954
poliomyelitis, oral vaccine program, Cincinnati, 1960.....		*369
poliomyelitis, recommendations of Surgeon General's Committee on Poliomyelitis Control, 1961.....		375
poliomyelitis, relation to epidemiologic patterns in Des Moines, Iowa, and Kansas City, Mo.....		*553
poliomyelitis, status in September 1960....		24
VACCINES		
influenza, relative merits of aqueous and adjuvant in two-dose schedule.....		*411
poliovirus, community spread of orally administered attenuated strains, Minnesota studies.....		*903
VECTOR-BORNE DISEASES		
epidemiologic models in studies of; R. E. Dyer lecture.....		*753
VENEREAL DISEASES		
<i>see also</i> name of disease		
clinic patients' reactions to penicillin, comparative data for 1954 and 1959.....		*189
educational materials, Communicable Disease Center, PHS.....		836
incidence, and availability of educational resources; status report.....		692
VENOMS		
North American coral snake, antivenin for bites of South American coral snake in neutralization of.....		*540
VIRUSES		
Coxsackie, group B, cause of infant deaths, St. Louis, Mo.....		617
detection on nonporous surfaces by cotton swab technique.....		*453
enteric, isolation from wading pools, Albany, N.Y., 1959.....		*199

VIRUSES—Continued		WASTES—Continued	
enteric, removal from sewage by activated sludge treatment.....	127	ment of, Pennsylvania.....	*201
human and animal respiratory and enteric infections, comparative study.....	*897	ground-water contamination in unsewered areas.....	127
in water supply, control with disinfectants.....	*565	removal of enteric viruses from sewage by activated sludge treatment.....	127
parainfluenza, isolation from infants and children, southern Louisiana.....	*765	removal of nutrients from domestic sewage by algae.....	*301
VISION		waste-grown algae as source of food.....	128
abnormalities in children, detection and remedial procedures.....	140	WATER POLLUTION	
misconceptions regarding partially seeing child.....	145	control needs, survey.....	377
of preschool children, testing by voluntary agencies.....	110	WATER SUPPLY	
teacher's contributions to eye health.....	145	analysis laboratories, use of reference samples to evaluate performance.....	*783
VITAL STATISTICS		chlorinated municipal, cause of infectious hepatitis epidemic, New York State.....	*745
accidents, occupations of men dying from, United States, 1950.....	*817	control of cross-connection hazards, new approach.....	129
birth rates, United States, 1959.....	1036	disinfectants, viricidal efficiency.....	*565
completeness of death registration for premature infants, North Carolina, 1959 study.....	*717	Drinking Water Standards, Public Health Service, 1961 revision.....	781
life tables in measurement of mortality and longevity, United States, 1958.....	*509	of interstate carriers, deficiencies.....	126
mortality from infectious diseases, United States, 1949-59.....	*159	public health implications of.....	*296
mortality from infectious hepatitis, United States, 1949-59; epidemiologic note.....	1006	use and quality.....	*633
primary and secondary syphilis, reported cases, United States.....	*999	well, source of gastroenteritis outbreak at resort, Seattle, Wash.....	*712
recent mortality trend, United States, preliminary observations.....	*1056	WELFARE see Public Welfare	
reporting of gastroenteric morbidity.....	654	WORLD HEALTH ORGANIZATION	
socioeconomic mortality differentials, United States, review of literature.....	*1081	<i>see also</i> International Health	
Sources of Morbidity Data, Listing Number 8, announcement of publication.....	18	fellowships for U.S. citizens.....	1005
WASTES		Pan American Health Organization, 1960 activities.....	1097
domestic, first stabilization pond for treat-		resolutions of the 14th World Health Assembly, New Delhi, India.....	639
		WORLD MEDICINE see International Health	
		ZOONOSES	
		research center, University of Illinois.....	384
		respiratory and enteric virus infections in humans and animals, comparative study.....	*897
		<i>Staphylococcus aureus</i> in domestic animals.....	*673

Author Index

*Original article. **Public Health Monograph.

Abernathy, James R.	*717	Brumback, C. L.	*349	Dickson, Owen C.	140
Abinanti, Francis R.	*897	Bryant, Zella	*857	Donnelly, Charles J.	*209
Adams, W. V.	*335	Buchbinder, Leon	*515	Donnelly, John H.	*727
Adelstein, Joseph	621	Bullock, Samuel	133	Dörken, Herbert	*239
Altenderfer, Marion E.	**937	Bunch, Richard W.	262	Downing, Burnetta	110
Altman, Isidore	*1051	Burney, Leroy E.	*291	Dublin, Thomas D.	*499
Angelotti, Robert	*771	Byrne, Edward G.	*524	Durdick, Edward J.	*825
Aronson, Jesse B.	107			Dwork, Ralph E.	837
Arrow, Kenneth J.	113	Cameron, W. Ross	*357	Dybwad, Gunnar	134
Auerbach, Harry	*345	Campbell, Ernest S.	131		
Auld, David V.	*633	Candau, M. G.	*793	Edelman, Joel	143
Axnick, Norman W.	*999	Caraway, Charles T.	*427	Edelman, Sidney	249, 378, 691
Ayers, Polly	137	Carson, Adrian L., Jr.	*83		852, 1037
		Centerwall, Willard	150	Edsall, Geoffrey	*811
Bahn, Anita K.	134, *231, **1041	Chandler, Caroline A.	139	Edwards, J. B.	*678
Bailar, John C. III	*987	Chang, Shih L(u)	127, *565	Eelkema, Robert C.	*879
Bailey, George C.	*771	Chapman, A. L.	343, 1119	Eichler, Herbert	141
Bajda, Lenore J.	139	Chase, Helen C.	*385	Eickhoff, Theodore C.	*1099
Baker, Everette F.	*257	Chen, William Y.	*699	Eldred, Donald M.	132
Baker, Timothy D.	*543	Chin, Tom D. Y.	*553	Emmons, Chester W.	*591
Barbano, Joseph	116	Clague, Ewan	*923	Enright, J. B.	152, *889
Baron, Seymour H.	*481	Clark, Katharine G.	955	Ensign, Paul R.	143
Barr, Robert N.	*908	Clarke, Norman A.	127, *565	Evans, Margaret A.	131
Bartsch, Alfred F.	148	Collins, J. R.	*945		
Bauer, Henry	*903	Comstock, George W.	*19	Faber, John E.	*529
Baumgartner, Leona	*583	Conant, James B.	670	Fair, J. F.	*673
Bazemore, Mary	*1009	Connery, Robert H.	*535	Falcone, Virginia H.	*933
Beadenkopf, William G.	*745	Conrad, G. Miles	1034	Farber, Sidney	149
Beard, J. Howard	*67	Cook, Bessie B.	128	Fargher, C. R.	132
Beasley, J. W.	1119	Cook, E. B. M.	*51	Faro, Stanley N.	672
Bell, John Elderkin	**841	Cook, Robert C.	108	Febles, Francisco, Jr.	*1009
Bennett, H. Stanley	238	Cooney, Marion K.	*903	Ferguson, Frederick F.	*461
Berg, Gerald	*565	Cooper, Robert C.	129	Fischer, Liselotte K.	139
Berger, David G.	*437	Copley, M. J.	148	Fisher, Edgar J., Jr.	*73
Bierman, Pearl	140	Corsa, Leslie, Jr.	*25	Fitzwater, Janet	*97
Blatz, Hanson	*583	Council, Charles R.	*717	Fiumara, Nicholas J.	*603
Blomquist, Edward T.	*871	Crounse, J. B.	*681	Flanigan, James F.	*540
Blumberg, Baruch S.	*499			Flemming, Burt	133
Bogan, R. H.	*301	Dauer, Carl C.	*159, *915, 1006	Follman, J. F., Jr.	115
Bosch, Herbert M.	*155	Davenport, Fred M.	*411	Foter, Milton J.	*771
Bossak, Hilfred N.	*933	Davies, Sherwood	*247	Fowler, H. W., Jr.	*179
Bowen, R. E.	*1120	Davis, C. B.	*678	Fox, James H.	*223
Braden, Max	*727	Davis, Leona L.	*509	Francis, Thomas, Jr.	*963
Brand, David	130	Davis, Michael M.	112	Frederiksen, Harald	*659
Braspeninckx, Herschul	*453	Deacon, W. E.	*93	Freeman, Ruth B.	*277
Brewster, Agnes	116	Deane, William N.	132	French, Frank S.	*877
Brooke, M. M.	*1009	Deaver, Mary Brice	*349	Freund, Julia	*379
Brooks, George W.	132	deBoer, Louis	143	Friedman, Eli A.	152
Brown, William J.	*189, *999	Delgado, Graciela	*349	Frothingham, Thomas E.	*765
Bruce, John M.	*427	Dickman, Albert	*832		

Fry, Charles L.	141	Johnson, Eugene A.	*903	Miller, Ben H.	*216
Fugazzotto, Paul	*201	Johnston, Helen L.	*469	Miller, Joseph M.	152
Furcolow, M. L.	150			Moody, Max D.	131, *651
		Kabler, Paul W.	127, *565	Moore, George	*78
Gerrie, Norman F.	*1029	Kandle, Roscoe P.	*521	Morgan, Russell H.	*571
Gerstle, Walter J.	*185	Kasdan, Morton	*453	Moriyama, Iwao M.	*1056
Gliedman, Lester H.	*397	Kaufman, Mildred	146	Morrison, S. M.	*673
Glorig, Aram	124	Keegan, Hugh L.	*179, *540	Morse, Warren W.	452
Glover, A. K.	*678	Kehoe, Robert A.	*645	Mosley, Kirk T.	*361
Goldmann, Franz	*625	Keller, Kenneth	*453	Mulhern, Marie	*879
Goldstein, Hyman	*43	Kelly, Sally	*199	Mushkin, Selma J.	*655
Goldstein, Marcus S.	116	Kennedy, K. K.	*673		
Googins, J. A.	*945	Kilpatrick, Franklin J.	127	Navone, Remo	*216
Gordon, Joseph	*665	Kimball, Anne C.	*903	Neter, Erwin	108
Goss, Mary E. W.	111	Kinney, Paul B.	141	Newman, Harold F.	*712
Graliker, Betty	150	Kinter, Galen F.	118	Norat, Praxedes	*1045
Greaves, Aston B.	*929	Kleinman, Herman	*903	Norman, Vivian B.	*231
Greenberg, Arnold E.	125, *783	Koch, Richard	150		
Greenberg, Morris	138	Kramer, Morton	134	Offutt, A. C.	*945
Greenslade, Margaret	146	Kreshover, Seymour J.	135	Olson, B. H.	*630
Greenstein, Frieda	138	Kulczycki, L. L.	*85	Ongerth, Henry J.	129
Guralnick, Lillian	*817	Kurland, Leonard T.	672	Osborne, Maurice M., Jr.	152
				Ostfeld, Adrian M.	129
Hafner, William G.	*543	Landau, Emanuel	*545	Oswald, William J.	128
Hammon, William McD.	*806	Larsh, H. W.	150	Ota, Minoru	*216
Hansen, Arild E.	147	Law, Frank E.	*287, *1094		
Hansen, Carl L., Jr.	*242	Lawrence, Ruth A.	141	Packer, Henry	*1107
Hardy, Albert V.	109	Lee, Sidney S.	115	Pagan, Eli F.	*1120
Harlow, Arthur H., Jr.	117	Leikina, E. S.	*263	Pakter, Jean	138
Harris, Ad	*93, *933	Lemkau, Paul V.	*437, *489	Palmer, Juan R.	*461
Harris, E. K.	*681	Lenert, Louva G.	147	Parker, Milton F.	152
Harris, Norman O.	137	Lepper, Mark H.	129	Parran, Thomas	*797
Harting, Donald	*469	LeVan, James H.	334	Patton, James G.	120
Hartman, Richard T.	*201	Lewis, Keith H.	*771	Paty, Jeanne	1063
Haseltine, Nate	725	Licking, D. S.	*681	Paul, Oglesby	129
Hayman, Charles R.	*251	Linder, Donna	*335	Peacock, William L., Jr.	*93
Hebert, Hyland J.	*391	Locke, Ben Z.	134	Peeples, William J.	131, *651
Hedeem, Robert A.	*179	Lucas, Leon	*475	Peller, Sigismund	151
Henderson, Marie B.	117	Lynch, H. J., Jr.	150	Pennell, Elliott H.	*11
Henderson, Norman D.	*630			Perrott, G. St.J.	955
Henderson, Robert	150	Macdonald, George	*753	Perry, Ellis L.	334
Hennessy, Albert V.	*411	MacLeod, K (enneth) I. E.	*85, *606	Peterson, John K.	136
Heustis, Albert E.	*1019	Maddock, Darrell R.	*777	Philip, Robert N.	*19
Hickey, John L. S.	122	Manuel, William A.	**937	Pier, A. C.	152, *889
Hickey, William V.	146	Marine, William M.	*553	Pollack, Earl S.	134
Hilbert, Morton S.	111	Marshall, A. L., Jr.	*945	Pomrinse, S. David	116
Hilleboe, Herman E.	107, *737	Marshall, John D.	*529	Pond, M. Allen	122, *967
Hillier, James	119	Martin, Dan A.	118	Porter, Eugene R.	*369
Hodges, Allen	*239	Mason, Herman C.	*257	Porterfield, John D.	142
Hopkins, Omar C.	126	Mason, Karl M.	123	Portnoy, Joseph	*447, *933
Horwitz, Abraham	*800	Mattis, Grace	*853	Poskanzer, David C.	*745
Howland, Joe W.	*242	Mattison, Berwyn F.	237	Prather, Perry F.	117
Hudnut, Herbert V., Jr.	*361	McCormick, John G.	*420	Price, Eleanor V.	*189
Humphrey, George L.	*391	McDonald, Glen W.	*825	Pukui, Mary Kawena	1076
Huntley, Robert R.	118	McFarren, Earl F.	148		
		McMahon, K. J.	*1120	Quinn, Robert W.	131
Imber, Stanley D.	*379	Merrill, Malcolm H.	109, *431		
		Michaelson, Sol M.	*242	Rankin, L. S.	132
Jacobziner, Harold	138	Michelson, Irving	125	Ravenholt, Reimert T.	*166, *879
Jeffreys, Margaret H.	*287	Miller, Ann	*665	Remein, Quentin R.	*825, **1123

Reynolds, Anna D.	*447	Sheps, Mindel C.	115	Vail, David J.	*975
Ribicoff, Abraham	770, 966	Shimkin, Michael B.	*861	Vandow, Jules	138, *447
Rice, Charles E.	*437	Shock, Nathan W.	*1023	Van Dyke, Frank	*1045
Rice, Susan Levy	*987	Sibert, Katie N.	145	Voorhees, William D.	132
Richards, Charles S.	*461	Sidio, A. D.	*201		
Richardson, Charles E.	145	Siedler, Howard	672	Wallace, David R.	*1094
Robbins, Lewis C.	*341	Simpson, W. G.	*189	Warner, Elizabeth M.	144
Robinson, Roslyn Q.	*1099	Skinner, H. Grant	*213	Warner, Silas	133
Roemer, Milton I.	114, *401	Smith, Quentin M.	*11	Watkins, Ray B.	*879
Rogers, Edward S.	955	Smyth, Francis Scott	119	Weaver, Warren	*57
Rogers, Perry B.	*717	Solon, Jerry	115	Webber, Irving L.	664
Rosen, Beatrice M.	*231	Somers, Anne R.	*1	Wehr, R. Eugene	*369
Rosenstock, Irwin M.	112	Somers, Herman M.	*1	Weil, Marvin L.	*37
Rosner, Henry J.	138	Spencer, F. J.	*219	Weiner, Daniel	*257
Roth, Arthur	142	Spielman, D. W.	131, *651	Weinerman, E. Richard	120
Roth, Earl E.	*335	Spitz, Grace Scholz	*1094	Weinhouse, Sidney	1034
Rudin, Edward	133	Spruce, George Blue, Jr.	*1059	Wellin, Edward	838
Russell, A. L.	*1087	Stallones, Reuel A.	*25	Wellock, Clyde E.	152
Russell, Jack H.	*281	Steere, William C.	1035	Wendt, G. Richard	141
		Steinhauser, Rahel	118	West, Howard	*995
Sabotta, Eugene E.	*213	Stepanek, Catherine Covert	*979	Wetherill, Gage G.	143
Salvato, Joseph A.	309	Sternfeld, Leon	618	White, Carl L.	*1087
Sanderson, Wallace W.	*199	Stevenson, Albert H.	*317	White, Kerr L.	118
Sandidge, Roy P., Jr.	131	Stevenson, Robert E.	127	White, Richard F.	*431
Sanyakorn, Chaiyan K.	*765	Stiles, William W.	*431	Whittemore, Frederick W., Jr.	*179, *540
Sauer, Herbert I.	130	Stockwell, Edward G.	*1081	Widelock, Daniel	*447
Schnurrenberger, Paul R.	*281	Stone, Anthony R.	*379	Wiese, Hilda F.	147
Schoettlin, Charles E.	*545	Sullivan, Catherine M.	*78	Willcox, Alanson W.	581
Schoof, H. F.	*777	Svihus, Richard H.	134	Williams, Huntington	*665
Schwimmer, Benjamin	*630	Sweeney, Robert F.	*693	Williams, T. Franklin	118
Sears, Paul B.	1036			Willie, Charles V.	*979
Sedlak, Vincent A.	*777	Taubenhaus, Leon J.	*420	Wohlgemuth, Margaret C.	*67
Segreto, Vincent A.	137	Taylor, Floyd B.	126	Wolford, Claire B.	*529
Seipp, Conrad	*425	Taylor, Joseph L.	*727	Wolman, Abel	121, *296
Sellery, C. Morley	145	Taylor, Marjorie B.	132	Woodward, Frank L.	127
Sewall, Lee G.	*437	Terry, Luther L.	*845	Woodward, Richard L.	126
Shafer, James K.	*469	Thomas, Robert E.	*379	Wylie, Charles M.	*596, *1111
Shaffer, Robert N.	151	Thorner, Robert M.	*1107, **1123	Wylie, Wendell L.	136
Shain, Max	*401	Tiedemann, John	*93		
Shannon, James A.	*803	Tosh, F. E.	150	Yankauer, Alfred	141
Shapiro, Sam	*481	Truelove, John	*447	Yerby, Alonzo S.	114
Shaw, G.	150				
Sheary, Helen C.	*287	Underwood, Bruce	125	Zirkle, Conway	1035
Sheps, Cecil G.	115				